

which function as an attP region, and inducing a high frequency of intrachromosomal homologous recombination between flanking attP regions, whereby said part of the transgene sandwiched therebetween is removed.

2. (Amended) The method of Claim 1 wherein said transgene comprises at least one member selected from the group consisting of a marker gene, a vector sequence, and other foreign ancillary nucleic acid.
3. (Amended) The method of Claim 1 wherein the marker gene confers resistance to antibiotics or herbicide resistance.
4. (Amended) The method of Claim 1 wherein the marker gene is involved in specific biosynthetic pathways or environmental tolerance.
5. (Amended) The method of Claim 1 wherein the marker gene is selected from the group consisting of nptII, Ble, dhfr, cat, aphIV, SPT, aaaC3, aaaC4, bar, EPSP, bxn, psbA, tfdA, DHPS, AK, sul, crs1-1 and tdc.
6. (Amended) The method of Claim 1 wherein more than one marker gene, vector sequence or foreign nucleic acid part is removed from the transgene and each such part to be removed is flanked by an attP region.
7. (Amended) The method of Claim 1 wherein the attP region comprises 352 basepairs, or functionally equivalent fragment thereof, located between positions 27492 and 27844 of bacteriophage  $\lambda$ .
8. (Amended) The method of Claim 1 wherein the attP regions are in a cassette.

DOCKET NO.: BTGI-0003

9. (Amended) The method of Claim 8 wherein the cassette further includes a transformation booster sequence or fragment thereof for enhancing homologous and illegitimate recombination.
10. (Amended) The method of Claim 8 wherein the cassette includes an effector gene such as oryzacytastin-I or functional equivalent thereof.
11. (Amended) The method of Claim 1 wherein the genome is a plant genome.
12. (Amended) A plant, plant cell or plant tissue produced by the method of Claim 1.
13. (Amended) A method of producing a plant comprising the steps:  
removing a part of a transgene after its integration into a plant genome comprising flanking said part of the transgene on each side thereof with an attachment P region (attP) of bacteriophage  $\lambda$ , wherein the attP region comprises a nucleic acid sequence as set forth in SEQ ID NO:1 or a fragment thereof which maintains the same function, or nucleic acids which hybridise under stringent conditions to the DNA of SEQ ID NO:1 and function as an attP region, or nucleic acids which differ from the DNA of SEQ ID NO:1 due to the degeneracy of the genetic code and which function as an attP region;  
inducing a high frequency of intrachromosomal homologous recombination between flanking attP regions, whereby said part of the transgene sandwiched therebetween is removed; and  
growing the plant.
14. (Amended) A plant, plant cell or plant tissue comprising recombinant attP regions.
15. (Amended) An attP recombination cassette comprising at least one member selected from the group consisting of a marker gene, a vector sequence, and foreign ancillary nucleic acid flanked on either side by an attP region, wherein the attP region comprises a nucleic acid sequence as set forth in SEQ ID NO:1 or a fragment thereof which maintains the same function, or nucleic acids

which hybridise under stringent conditions to the DNA of SEQ ID NO:1 and function as an attP region, or nucleic acids which differ from the DNA of SEQ ID NO:1 due to the degeneracy of the genetic code and which function as an attP region.

17. (Amended) A kit for removing a part of a transgene after its integration into a plant genome comprising the attP recombination cassette of Claim 15.
18. (Amended) A plant, plant cell or plant tissue comprising a recombinant transgene integrated into its genome, wherein the transgene is associated with a bacteriophage  $\lambda$  attP region on respective sides thereof, wherein the attP region comprises a nucleic acid sequence as set forth in SEQ ID NO:1 or a fragment thereof which maintains the same function, or nucleic acids which hybridise under stringent conditions to the DNA of SEQ ID NO:1 and function as an attP region, or nucleic acids which differ from the DNA of SEQ ID NO:1 due to the degeneracy of the genetic code and which function as an attP region.
19. (Amended) The plant, plant cell or plant tissue of Claim 18 wherein the plant, plant cell or plant tissue comprises one bacteriophage  $\lambda$  attP region and one effector transgene integrated into its genome.
20. (Amended) The plant, plant cell or plant tissue of Claim 19 wherein the bacteriophage  $\lambda$  attP regions and one transgene are not associated with a marker gene, vector sequence or other foreign ancillary nucleic acid.
21. (Amended) The plant, plant cell or plant tissue of Claim 18 wherein the transgene is further associated with a transformation booster sequence or fragment thereof which is capable of enhancing homologous and illegitimate recombination.
22. (New claim) The method of Claim 13 further comprising harvesting products from the plant.

23. (New claim) A method comprising providing a plant, plant cell or plant tissue of Claim 12 and growing the plant.
24. (New claim) The method of Claim 23 further comprising harvesting products from the plant.

**REMARKS**

Claims 1-21 were originally filed in International Application No. PCT/GB00/03543. Claim 16 has been canceled without prejudice to its presentation in another application. Claims 1-15 and 17-21 have been amended solely to place the claims in condition for national phase entry in the United States. New claims 22-24 have been added, support for which can be found in originally filed Claim 13. No new matter has been added. Upon entry of the present amendment, claims 1-15 and 17-24 will be pending.

Applicants respectfully submit that the claims are in condition for allowance. An early notice of the same is earnestly solicited. The Examiner is invited to contact Applicants' undersigned representative at (215) 564-8906 if there are any questions regarding Applicants' claimed invention. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned **"Version with markings to show changes made."**

Respectfully submitted,



**Paul K. Legaard**

Registration No. 38,534

Date: **15 March 2002**

WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia, PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439